



PRO-163/PRO-164

CPU 1.07 Firmware Upgrade

RadioShack is ready to offer this free upgrade to fix the following problem using your PRO-163/PRO-164(20-163/20-164) Triple Trunking Radio Scanner.

The problem is that when the same frequency is stored in the control channel of Motorola System and of EDACS System, the software does not decode EDACS Control Channel data properly.

Please take a moment to review the following instruction before proceeding with the upgrade.

IMPORTANT NOTICE: You must upgrade your RadioShack scanner with a firmware upgrade obtained from RadioShack. Please note that firmware upgrades for RadioShack scanners are not compatible with scanning receivers sold by other manufacturers.

What you will need to upgrade your radio

You will need the following items to perform the CPU firmware upgrade:

- The upgrade application file, which is normally supplied in a self-extracting ZIP archive along with this documentation. To download the file, visit the RadioShack Support Site, at <http://www.radioshack.com>. Note that the upgrade package contains two executable upgrade files, as follows:
 - 20-163_164_v107_BOOT100.EXE (for use with 20-163 and 20-164 models with Boot Version 1.00)
 - 20-163_164_v107_BOOT101.EXE (for use with 20-163 and 20-164 models with Boot Version 1.01)
- A RadioShack Catalog #20-047 USB scanner programming cable
- A personal computer running Windows™ 2000, XP or Vista
- A 20-163 or 20-164 scanner in need of a CPU upgrade

Upgrading your 20-163 or 20-164

Upgrading your scanner is a quick, simple and safe process. There is no way you can render your scanner inoperable by performing the upgrade.

Step by step upgrade procedure

This step by step procedure assumes that you have downloaded the 20-163/20-164 firmware upgrade package, that you have installed the drivers for the RadioShack Catalog #20-047 cable on your personal computer, that the RadioShack Catalog #20-047 USB cable is connected to an available USB port on your personal computer, and that you know the COM port number that Windows™ has assigned to the RadioShack Catalog #20-047 USB cable. If this is not the case, please take a moment now to prepare for the upgrade by completing the above steps before proceeding.

1. Upgrading your radio will result in the loss of any programming that you have stored. We recommend that you save your work before proceeding with the upgrade using a third party scanner programming software application. For more information on third party scanner programming applications, see the **“Setting the custom programmable trunking tables using third party scanner application software”** section below.
2. As noted above, there are two different versions of CPU firmware for the 20-163/20-164 scanning receivers. 20-163_164_v107_BOOT100.EXE works with earlier versions of 20-163 and 20-164 that utilize Boot Version 1.00, and 20-163_164_v107_BOOT101.EXE works with more recent versions of 20-163 and 20-164 that utilize Boot Version 1.01. To determine which version you should use, turn your radio off, hold down the PGM key, then turn the radio on again. Refer to the “uP Boot Ver:” line at the top of the display to determine the Boot Version used in your radio. 20-163_164_v107_BOOT100.EXE should be used with Boot Version 1.00, and 20-163_164_v107_BOOT101.EXE should be used with Boot Version 1.01.
3. Locate the upgrade file that is needed for your radio using the information you acquired in Step 2. No installation is required - if necessary, move the correct file to your Windows Desktop or to another convenient location on your hard drive where you can find it when the time comes to start the program.
4. Double click the upgrader program to start the upgrade process. Follow the on-screen upgrade instructions exactly to upgrade your radio.
5. When the upgrade is complete, disconnect the USB cable from the scanner. Power the scanner off, hold down the PGM key, then power the scanner on again. Confirm that the radio now reports the CPU version as 1.06. Turn the radio off, then on again to reset it.



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Troubleshooting

- Ensure that the USB cable drivers are installed and that Windows recognizes the cable and has assigned a COM port number.
- Ensure that the correct COM port is set in the upgrader.
- Ensure that no other applications are running that access the same COM port.
- Repeat the upgrade process, making certain that the on-screen instructions of the upgrader are followed exactly.

If the above suggestions do not work, try running the upgrade utility on a different computer. In some cases hidden applications can cause port conflicts. It is not always possible to see these hidden applications and disable them to eliminate the conflict.

Support

Visit your local RadioShack store for support for this firmware upgrade and any other product issues.